

010734



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200
Fax 613 632-5246

SWA6A-3-OH
Job Sheet OH195074



Part No: SWA6A-3-OH

Part Name: Electric Swivel 6,000 lb Safe
Work Load (2,721 kg)



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 5/13/19

Job Tracking No:

Due Date: 7/5/19

Created By: Jennifer Renwick

Type: Rework - OH

Description: RA653 / Order15464 / SN 2940-01

Note: O&OPM-SWA6 REV.G & SWA6A Rev E IPP REV:A 18.04.09 NEW ISSUE DP VERF:DD/IPP Rev. B 19.05.03
drawing revision DP Verify DD

Ship Via:

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup Hrs	Run Hrs	Workcenter / Supplier	Lead Time	
110	External Load - 1	0 pcs	7/5/19	7/5/19	0.00	0.00	External Load - 1		5178113 Michel
							External Load - 2		
							External Load - 3		
120	QC 5	0 pcs	7/5/19	7/5/19	0.00	0.00	QC 5 - 10		
							QC 5 - 12		
							QC 5 - 17		
							QC 5 - 18		
							QC 5 - 19		
							QC 5 - 22		
							QC 5 - 24		
							QC 5 - 3		
							QC 5 - 43		
							QC 5 - 49		
							QC 5 - 51		
							QC 5 - 58		
							QC 5 - 68		
							QC 5 - 9		
							QC 5 - 50		
							QC 5 - 30		
							QC 5 - 40		
130	Customer Acceptance	0 pcs	7/5/19	7/5/19	0.00	0.00			
140	Outsource - 24 - Test / OH	0 pcs	7/5/19	7/5/19			SKY002-VC	5	2019-06-07
150	Packaging 2-1 - Receive - B4B	0 pcs	7/5/19	7/5/19	0.00	0.00	Packaging 2 - 1 - B4B		
							Packaging 2 - 2 - B4B		
							Packaging 2 - 3 - B4B		
							Packaging 2 - 5 - B4B		
							Packaging 2 - 4 - B4B		
							Packaging 2 - 6 - B4B		
							Packaging 2 - 7 - B4B		
							Packaging 2 - 8 - B4B		
							Packaging 2 - 9 - B4B		
							Packaging 2 - 10 - B4B		
							Packaging 2 - 11 - B4B		
							Packaging 2 - 12 - B4B		
							Packaging 2 - 13 - B4B		
							Packaging 2 - 14 - B4B		
							Packaging 2 - 15 - B4B		
							Packaging 2 - 16 - B4B		
							Packaging 2 - 17 - B4B		



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
CANADA
TEL: 1 613 632-5200
Email: sales@dartaero.com
www.dartaerospace.com

Container No: S178113



Part: SWA6A-3

Job No: OH195074

Serial No/Batch: 2940-01

Revision: G

Inspector:

Exp Date:

Instructions:

Date: 06/14/19

Plex 5/13/19 3:21 PM Dart.Renwick.Jennife

					Packaging 2 - 18 - B4B	
					Packaging 2 - 19 - B4B	
					Packaging 2 - 20 - B4B	
					Packaging 2 - 21 - B4B	
					Packaging 2 - 22 - B4B	
					Packaging 2 - 23 - B4B	
					Packaging 2 - 24 - B4B	
					Packaging 2 - 25 - B4B	
					Packaging 2 - 26 - B4B	
					Packaging 2 - 27 - B4B	
					Packaging 2 - 28 - B4B	
					Packaging 2 - 29 - B4B	
					Packaging 2 - 30 - B4B	
					Packaging 2 - 31 - B4B	
					Packaging 2 - 32 - B4B	
					Packaging 2 - 33 - B4B	
					Packaging 2 - 34 - B4B	
					Packaging 2 - 35 - B4B	
					Packaging 2 - 36 - B4B	
160	QC 6	0 pcs	7/5/19	0.00 0.00	QC 6 - 9	DAS JUN 17 2019 68
					QC 6 - 68	9-89
					QC 6 - 61	
					QC 6 - 40	
170	External Load - 2 - B4B	0 pcs	7/5/19	0.00 0.00	External Load - 1 - B4B	AP 2019/07/5
					External Load - 2 - B4B	
					External Load - 3 - B4B	
180	QC 5	0 pcs	7/5/19	0.00 0.00	QC 5 - 10	
					QC 5 - 12	
					QC 5 - 17	
					QC 5 - 18	
					QC 5 - 19	
					QC 5 - 22	
					QC 5 - 24	
					QC 5 - 3	
					QC 5 - 43	
					QC 5 - 49	
					QC 5 - 51	
					QC 5 - 58	
					QC 5 - 68	
					QC 5 - 9	
					QC 5 - 50	
					QC 5 - 30	68 6
					QC 5 - 40	DAS 06
185	DC - 1 - B4B	0 pcs	7/5/19	0.00 0.00	DC - 1 - B4B	DAS 21 9-89
					DC - 2 - B4B	JUL 11 2019
190	Packaging 3-1 - Stock - B4B	0 pcs	7/5/19	0.00 0.00	Packaging 3 - 1 - B4B	JUL 11 2019
					Packaging 3 - 2 - B4B	
					Packaging 3 - 3 - B4B	
					Packaging 3 - 4 - B4B	
					Packaging 3 - 5 - B4B	
					Packaging 3 - 6 - B4B	
					Packaging 3 - 7 - B4B	
					Packaging 3 - 8 - B4B	DAS 30 9-89
					Packaging 3 - 9 - B4B	
					Packaging 3 - 10 - B4B	
					Packaging 3 - 11 - B4B	
					Packaging 3 - 12 - B4B	
					Packaging 3 - 13 - B4B	
					Packaging 3 - 14 - B4B	
					Packaging 3 - 15 - B4B	
					Packaging 3 - 16 - B4B	
					Packaging 3 - 17 - B4B	
					Packaging 3 - 18 - B4B	
					Packaging 3 - 19 - B4B	
					Packaging 3 - 20 - B4B	
					Packaging 3 - 21 - B4B	
					Packaging 3 - 22 - B4B	
					Packaging 3 - 23 - B4B	
					Packaging 3 - 24 - B4B	
					Packaging 3 - 25 - B4B	

				Packaging 3 - 26 - B4B	
				Packaging 3 - 27 - B4B	
				Packaging 3 - 28 - B4B	
				Packaging 3 - 29 - B4B	
				Packaging 3 - 30 - B4B	
				Packaging 3 - 31 - B4B	
				Packaging 3 - 32 - B4B	
				Packaging 3 - 33 - B4B	
				Packaging 3 - 34 - B4B	
				Packaging 3 - 35 - B4B	046
				Packaging 3 - 36 - B4B	21
200	QC 21 - FG	0 pcs	7/5/19	0.00 0.00	QC 21 - FG - 21
					QC 21 - FG - 70
					QC 21 - FG - 53

Part Op 110 - RA: _____ TEST ASSEMBLY. DISASSEMBLE ASSEMBLY. INSPECT DAMAGE PART.
 Descriptions: 120 - (QC5- Inspect part completeness to step on W/O)
 150 - (Receive & Inspect for Damage & Mat'l Certs)
 160 - (QC6- All purchased or subcontracted products)
 170 - RE-ASSEMBLE. ***All assembly to be done in accordance with manual*** TEST ASSEMBLY.
 180 - (QC5- Inspect part completeness to step on W/O)
 185 - Photocopy blue file O&OPM-SWA6A Rev.G
 190 - (Identify as per dwg & Stock Location: _____)
 200 - (QC21- Final Inspection - Work Order Release)

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
SWA6A-3-AR	Electric Swivel 6,000 lb Safe Work Load (2,721 Kg)	0 pcs (1 ea)	110-External Load - 1	
188-FPSS-1032-1/2	Set Screw	0 Ea (1 ea)	170-External Load - 2 - B4B	5037670
188-FSCS-1032-5/8	Flat socket cap Screw	0 Ea (4 ea)	170-External Load - 2 - B4B	5179122
C45-15-13	Bushing for SWA6A	0 Ea (1 ea)	170-External Load - 2 - B4B	5027232
EL-PLUG-F	3-Prong Female Spade Plug	0 Ea (1 ea)	170-External Load - 2 - B4B	
EL-PLUG-M	3-Prong Male Spade Plug	0 Ea (1 ea)	170-External Load - 2 - B4B	
EL314-SJTOW	Long Line Electrical Wire, 14/3 Gauge replace w/t 01004-08-047	0 ft (6 ea)	170-External Load - 2 - B4B	5179682
SWA6A-100	Lower End	0 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-1100	Upper Bearing	0 pcs (1 ea)	170-External Load - 2 - B4B	5128642
SWA6A-1200	Lower DU Bearing	0 Ea (1 ea)	170-External Load - 2 - B4B	5175995
SWA6A-1300	Lower Thrust Bearing	0 Ea (1 ea)	170-External Load - 2 - B4B	5176002
SWA6A-1400	Circlip Internal	0 Ea (1 ea)	170-External Load - 2 - B4B	5093403
SWA6A-1800	Cover	0 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-1900	1/4" Female Spade Connector	0 Ea (6 ea)	170-External Load - 2 - B4B	5192706
SWA6A-200	Upper End	0 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-300	Bearing Housing	0 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-400	Thrust Washer	0 pcs (1 ea)	170-External Load - 2 - B4B	5178027
SWA6A-500	Semi Rings	0 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-600	Collar	0 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-700B	Wire Clamp, 1/2 X 1-3/8 X 1-1/4	0 pcs (2 ea)	170-External Load - 2 - B4B	5166591
SWA6A-800B	Connector Bushing	0 pcs (1 ea)	170-External Load - 2 - B4B	
SWA6A-900B	Rotary Connector - 3 wire	0 Ea (1 ea)	170-External Load - 2 - B4B	

SWA6A-700B WIRE CLAMP

2

5166591

Job Allocations				
Operation	Component Part	Required	Inventory	Allocated
110-External Load - 1	SWA6A-3	0	0	0
	188-FPSS-1032-1/2	0	51	0
170-External Load - 2 - B4B	188-FSCS-1032-5/8	0	155	0
	C45-15-13	0	9	0
	EL-PLUG-F	0	17	0
	EL-PLUG-M	0	42	0
	EL314-SJTOW	0	0	0
	SWA6A-100	0	10	0
	SWA6A-1100	0	10	0
	SWA6A-1200	0	22	0
	SWA6A-1300	0	16	0
	SWA6A-1400	0	43	0
	SWA6A-1800	0	17	0
	SWA6A-1900	0	193	0
	SWA6A-200	0	10	0
	SWA6A-300	0	12	0
	SWA6A-400	0	14	0
	SWA6A-500	0	20	0
	SWA6A-600	0	6	0
	SWA6A-700B	0	43	0
	SWA6A-800B	0	10	0
	SWA6A-900B	0	14	0
Part Specifications				
Specifications could not be found.				

Plex 5/13/19 3:21 PM Dart.Renwick.Jennifer

Loctite 242 (5186572)
 Loctite 620 (5166705)
 Aeroshell grease NO.7 (5138964)
 Saf-T-eye (M128063)
 Silicone ge (M139008)

Inspection Sheet Complete

RA653

Customer QA Ref #

0

Part Number	Original Batch / Serial # / Ctrl #	Original Revision #	Quantity	Part Complete	Rev/CHG Current	New Paperwork	New Labels	Disposition	Original Container #	New (Receiving) Serial #	New Job #	Work order instructions
C10	AC10003		1	☒ Yes	☐ Yes	☐ Yes	☐ Yes	CUSTOMER SUPPLIED		S176899		Overhaul
SWA10A-2	03-4357-01 / AC10013		2	☒ Yes	☐ Yes	☐ Yes	☐ Yes	CUSTOMER SUPPLIED		S176900/S176951		Overhaul
C60	3162-01		1	☒ Yes	☐ Yes	☐ Yes	☐ Yes	CUSTOMER SUPPLIED		S176937		Overhaul
SWA6A-3	3234-03 / 3153-02 / 2940-01		3	☒ Yes	☐ Yes	☐ Yes	☐ Yes	CUSTOMER SUPPLIED		S176938, S177994, S177995		Overhaul
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					
0			0	☐ Yes	☐ Yes	☐ Yes	☐ Yes					

QC Approval: _____ 0

Date: 0-Jan-00 _____

Special Return/Rework Instructions:

Work Order 195074Customer RA 653Number of Wires 3Date 2019-5-21Serial Number 2940-01

Number of Cycles	Load (Lbs.)	Action	Pass/Fail
1	6,000	Check for Conductivity against all wires.	- Pass
1	6,000	Check all wires for grounding against swivel body.	- Pass
1	3,000	Check for Conductivity against all wires.	- Pass
1	3,000	Check all wires for grounding against swivel body.	- Pass
1	1,500	Check for Conductivity against all wires.	- Pass
1	1,500	Check all wires for grounding against swivel body.	- Pass
1	0	Check for Conductivity against all wires.	- Pass
1	0	Check all wires for grounding against swivel body.	- Pass

Test Conducted By: Michel Lalonde

Signature: _____

Technician

QC 5 Small FAB / QA

Submit



N.D.T

S/N : 2940-01

Job : OH195074 RA. # 653

[illegible]

ALAN PATRY



RA. # 653

ALAIN PATRY



Overhaul Incoming Inspection
SWIVEL SWAGA

Customer

OH 195074 / BAG53 / ORDER 15464

Date

2019/06/04

Part Number

Serial Number

2940-01

Additional Recommended Replacement Parts

Part Number to Replace

Customer Approval

(2) SWAGA-700B WIRE CLAMP

☐☐☐☐☐☐☐☐☐☐

Inspected By

ALAIN PATRY



Overhaul Incoming Inspection

SWIVEL SWAGA

Customer

OH 195074 / BAG53 / ORDER 15464

Date

2019/06/04

Part Number

Serial Number

2940 -01

Additional Recommended Replacement Parts

Part Number to Replace

Customer Approval

(2) SWAGA-700B WIRE CLAMP

☐☐☐☐☐☐☐☐☐☐☐

Inspected By

ALAIN PATRY



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043674



Supplier: SKY002-VC
Skyservice
6120 Midfield Road
Mississauga
ON
L5P 1B1 Canada
Phone: 905-678-5636
Fax: 905-678-5841

Attention: Jenne, Heather

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

PO No: POHB043674

PO Date: 6/7/19

Due Date: 6/12/19

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Guerin, Kimberley
kguerin@dartaero.com

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments:

Items

Line Item	Job	Part	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	OH194581	C60-OH	C-Series Remote Hook 6,000 lbs Lift Capacity LIQUID PENETRANT INSPECTION AS PER QSI 038	Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
						1 X JUN 14 2019					
2	OH194577	C10-OH	C-Series Remote Hook 10,000 lbs Lift Capacity ISSUE P/O: _____ C OF C IS REQUIRED	Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
						1 X JUN 14 2019					
3	OH194580	SWA10A-2-OH	Electric Swivel 10,000 lb Safe Work Load (4,536 Kg)	Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
						1 X JUN 14 2019					
	OH194579			Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
						1 X JUN 14 2019					
Sub Total:							2	0	2		\$356.00

4	OH194582	SWA6A-3-OH	Electric Swivel 6,000 lb Safe Work Load (2,721 kg)	Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
						1 X JUN 14 2019					
	OH194583			Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
	OH195074			Firmed	-	6/12/19	1 pcs	0 pcs	1 pcs	\$178.00/pcs	\$178.00
						1 X JUN 14 2019					
Sub Total:							3	0	3		\$534.00

Grand Total: \$1,246.00

DAS
68
9-89



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER

POHB043674



Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)

A022 Apical Processing
A024 process certifications
A026 certification of material conformance

A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/14/19 11:46 AM Dart.Guerin.Kimberley

**skyservice****Work Order Traveler**

Sky Service F.B.O. Inc.

10105 Ryan Avenue, Dorval, Quebec, H9P 1A2

TCCA AMO 53-89 / EASA 145.7142 / BDA AMO 385

WO #: MWO40719	Customer: Dart Aerospace Ltd.	Dept: NDT YUL	Reference: POHB043674 ✓
Descr:	PN:	S/N:	Qty: 1
Make:	Model:	Reg:	A/C S/N:
TSN:	CSN:	TSO:	
Task: UNSCHEDULED			Sequence: 1

Work Required:**CARRY OUT NDT ON:**

✓ 1 C-SERIES REMOTE HOOK , P/N# C60-OH , J/S# OH194581 ✓

1 C-SERIES REMOTE HOOK , P/N# C10-OH , J/S# OH194577 ✓

1 ELECTRIC SWIVEL , P/N# SWA10A-2-OH , J/S# OH194580 ✓

1 ELECTRIC SWIVEL , P/N# SWA10A-2-OH , J/S# OH194579 ✓

1 ELECTRIC SWIVEL , P/N# SWA6A-3-OH, J/S# OH194582 ✓

1 ELECTRIC SWIVEL , P/N# SWA6A-3-OH, J/S# OH195074 ✓

1 ELECTRIC SWIVEL , P/N# SWA6A-3-OH, J/S# OH194583 ✓

DAS
68
9-89\$1246.00
= \$178/each

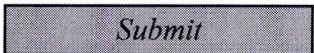
Action Taken:	Date:	Initial/Stamp:				
LPI & MPI CARRIED OUT IAW ASTM E-1417M-16 AND ASTM E-1444M-16 ***NO CRACK FOUND*** PEN , ZL-37 MPO#: 23206 CLEANER SKC-S MPO15030, EMU.(ZR-10B, MPO23451), DEV. MPO15030, UV LIGHT M-20142 MAGBENCH S/N 208123 CAL DUE: 25-SEP-2019 POWDER 14A BATCH# MPO13600 CARRIER II BATCH# MPO22794 BLACK LIGHT-M20186 RECEIVED JUN 14 2019 DART AEROSPACE LTD.	JUN 11 2019	 RV				
Description	Location	P/N	Qty	Batch	S/N Off	S/N On
N/A						

I certified that the maintenance described above has been performed in accordance with the applicable standard of airworthiness.

Signature:	ACA/SCA Stamp DOT-APP 310 53-89	Date: JUN 11 2019
Name: RICARDO VARGAS		

Work Order 195074Customer RA 653Number of Wires 3Date 2019-6-27Serial Number 2940-01

Number of Cycles	Load (Lbs.)	Action	Pass/Fail
1	6,000	Check for Conductivity against all wires.	- Pass
1	6,000	Check all wires for grounding against swivel body.	- Pass
1	3,000	Check for Conductivity against all wires.	- Pass
1	3,000	Check all wires for grounding against swivel body.	- Pass
1	1,500	Check for Conductivity against all wires.	- Pass
1	1,500	Check all wires for grounding against swivel body.	- Pass
1	0	Check for Conductivity against all wires.	- Pass
1	0	Check all wires for grounding against swivel body.	- Pass

Test Conducted By: Michel Lalonde
TechnicianSignature: Sylvie Boucher
QC 5 Small FAB / QASubmit